

**Work Order ID 69912**

Tuesday, May 24, 2011 1:03:06 PM



Ship Friday

Page 1

Item ID: D412-783-011

Accept



Setup Start



Revision ID:

Item Name: Gross Weight Towing

Start Date: 5/24/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 5/27/2011 Req'd Qty: 1.00



Customer:

May 27<sup>th</sup> Stop

Reference:

Approvals:

Process Plan: *MF*

Date: 11-0530

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D3943

C

IIN-D412-783

A

0.00

100



DC

Document Control

Memo

0.00

Photocopy bluefile &amp; type labels per PPPD412-783-011 CHG 002

8/16/27

J. L. CL 11/5/25

110



Packaging

Packaging

Pick Kit

0.00

Memo

0.00

P. 11/26 (1)

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 69912

Tuesday, May 24, 2011 1:03:06 PM



Page 2

Item ID: D412-783-011

Accept



Setup Start



Revision ID:

Item Name: Gross Weight Towing

Stop



Start Date: 5/24/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 5/27/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

\*\*\*ENSURE CALIBRATION CERT. IS IN IIN PAPER WORK\*\*\*

8 11/05/27



130

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-783-011

Location: \_\_\_\_\_

PPP Rev: \_\_\_\_\_

11/05/27

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/05/27  
MF  
11-05-29

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

**NOTE:** Date & initial all entries

Tuesday, May 24, 2011 1:03:02 PM

**Parent Item:** D412-783-011

**Parent Item Name:** Gross Weight Towing





**Start Date:** 5/24/2011

**Required Date: 5/27/2011**

**Start Qty: 1.00**

**Required Qty: 1.00**

**Comments:** IPP Rev:A New Issue 09-06-02 JLM Verified By:EC IPP Rev:B @  
chg 002 DD 10.02.22 Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3943-041 		Manufactured	No			110	Each	0.0000	1	1			
Ground Handling Crank Assembly										63727			
D3951-041 		Manufactured	No			110	Each	5.0000	1	1			
Equipment Bag Assembly													
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				ST460			5						
				55714			4						
				63742			1			63742			
D3954-1 		Manufactured	No			110	Each	5.0000	2	2			
GWT Pin													
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				ST102			5						
				55685			5			55685			
D3954-3 		Manufactured	No			110	Each	3.0000	2	2			
GWT Knob													
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				ST097			3						
				55713			3			55713			

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

**NOTE:** Date & initial all entries

## 4.0 CALIBRATION

### 4.1 Calibration of the D3943-041 Tow Crank Assembly

- 4.1.1 The chain ratchet handle on the D3943-041 Tow Crank Assembly must be calibrated annually to ensure the handle indicates "clicks" when a 3500 lbs – 4000 lbs load has been achieved. To calibrate loosen setscrew that locks the threaded stainless steel ball plunger (Refer to figure 2 for details). Place a load cell inline and ratchet until the 3500 lbs – 4000 lbs has been reached. If the handle clicks before the 3500lbs load then turn plunger clockwise 1/8 turn, remove load and retry. If handle does not click between the 3500lbs and 4000 lbs load, turn plunger 1/8 turn counterclockwise, remove load and retry. Once the handle has been properly set retighten setscrew and test once more.
- 4.1.2 The Tow Crank Assembly may be returned to DART for calibration, at the operator's expense.

## 5.0 PARTS LIST

QTY -011	PART NUMBER	DESCRIPTION
X	D412-783-011	GROSS WEIGHT TOWING KIT
1	D3943-041	TOW CRANK ASSEMBLY
1	D3951-041	EQUIPMENT BAG
2	D3954-1	GWT PIN
2	D3954-3	GWT KNOB